

ABSTRACT

[0036]

A transient voltage surge suppressor is provided to protect equipment with voltage sensitive electronics, such as office equipment, from surges or transients in the multi-phase power distribution network furnishing power. The surge suppressor senses the incoming voltage and electrically disconnects the neutral leads and hot leads of the power network from the neutral lead and hot lead of the office equipment if a voltage surge above an established level is sensed. The suppressor also disconnects its output when a ground connection in the multi-phase power network is disconnected to protect the equipment against excessive voltages. In this situation, the suppressor circuit protects its internal components from damage and possible fire hazard when its output is disabled, so that the suppressor can resume its function when conditions in the power distribution network return to a satisfactory state.